

# New Jersey's **CONSTRUCTION & UTILITIES** Industry Sector



Prepared By:  
New Jersey Department of Labor  
& Workforce Development  
Office of Research & Information  
**Bureau of Labor Market Information**  
**Winter 2019-2020**



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# THE GOAL OF THIS REPORT IS TO GET AN “IDEA” OF WHAT CONSTRUCTION AND UTILITIES MEANS TO NEW JERSEY

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**Identify** the types of industries and establishments that make up the construction/utilities industry sector based on a standard industry classification system

**Describe** any similarities and differences among its components with regard to such variables as employment, wage, occupation type, education, and demographic characteristics

**Examine** any present distinctions within the sector and its components that give New Jersey a competitive advantage compared to neighboring states, regions or the nation, or show areas where New Jersey could improve to add to the state’s economy

**Analyze** the current state of the construction and utilities industry sector and provide an outlook for employment into the future



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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS)

### CONSTRUCTION

**2361 Residential Building Construction**

**2362 Nonresidential Building Construction**

**2371 Utility System Construction**

**2372 Land Subdivision**

**2373 Highway, Street, and Bridge Construction**

**2379 Other Heavy and Civil Engineering Construction**

**2381 Foundation, Structure, & Building Exterior Contractors**

**2382 Building Equipment Contractors**

**2383 Building Finishing Contractors**

**2389 Other Specialty Trade Contractors**

### UTILITIES

**2211 Electric Power Generation, Transmission & Distribution**

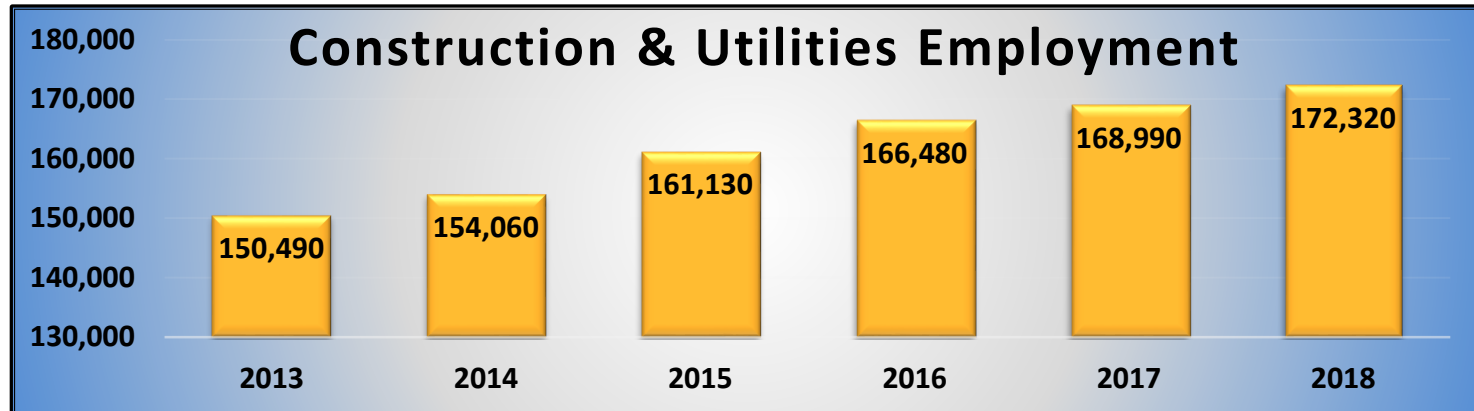
**2212 Natural Gas Distribution**

**2213 Water, Sewage and Other Systems**

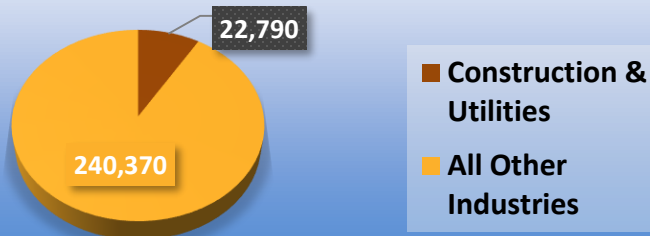


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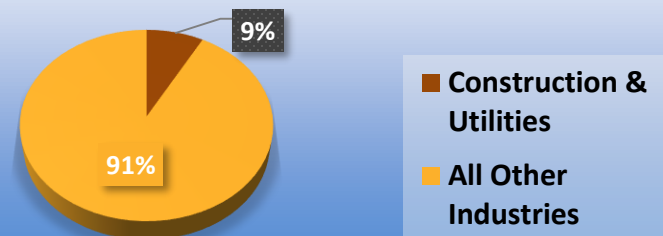
# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR OVERALL STATE IMPACT IN 2018



Construction & Utilities have a total of 22,790 establishments in N.J.



Construction & Utilities combined make up near 9% of our State's establishments



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Source: NJ Department of Labor & Workforce Development, Quarterly Census of Employment and Wages, 2013 – 2018 Annual Averages  
Prepared by: New Jersey Department of Labor and Workforce Development, January 2020

# **CONSTRUCTION INDUSTRY SECTOR: OVERVIEW**



# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## CONSTRUCTION OVERVIEW, 2018

- The construction industry is divided into 3 components:
  - Specialty Trade Contractors
  - Construction of Buildings
  - Heavy and Civil Engineering
- In 2018, New Jersey's construction industry averaged 157,150 total employment. An increase of 2,240 (+1.4%) jobs from 2017's average.
- An estimate of 101,230 people were employed in occupations classified as construction and site preparation across the state in 2018.
- In 2018, the construction industry's average salary was \$72,660.



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Source: NJ Department of Labor & Workforce Development, Quarterly Census of Employment and Wages, 2017 - 2018 Annual Averages  
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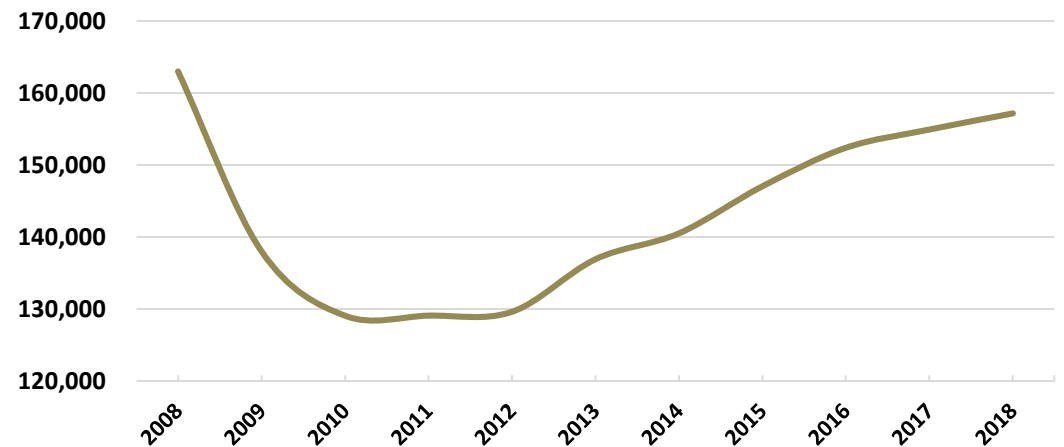
# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## CONSTRUCTION EMPLOYMENT, 2018

- In 2018, specialty trade contractors made up nearly two-thirds of the construction industry employment (64.5 percent); 22.8 percent construction of buildings ; and 12.7 percent heavy and civil engineering.



- Over the past 10 years (2008-2018), the construction industry has experienced an overall decline of 5,840 jobs, and hit its lower point in 2010 with only 129,050.



- However, from 2010-2018, construction saw an average employment growth of 2.1% per year. This was an increase of 28,100 jobs by the end of 2018.



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Source: NJ Department of Labor & Workforce Development, Quarterly Census of Employment and Wages, 2008 - 2018 Annual Averages  
Prepared by: New Jersey Department of Labor and Workforce Development, January 2020

# UTILITIES INDUSTRY SECTOR: OVERVIEW





# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## UTILITIES OVERVIEW, 2018

- ◆ Utilities encompasses a wide range of subcategories in regards to generation of our electricity. Utilities has multiple classifications of establishments that produce electricity such as fossil fuel, nuclear, solar, and wind. The NAICS (North American Industry Classification System) excludes a focus in waste management from this sector's employment.
- ◆ The average utility industry salary was \$123,350 in 2018 increasing \$3,050 (2.5%) from 2017.
- ◆ The utilities sector has very few establishments (370 units), which only accounts for 0.14 percent of the overall units in New Jersey.



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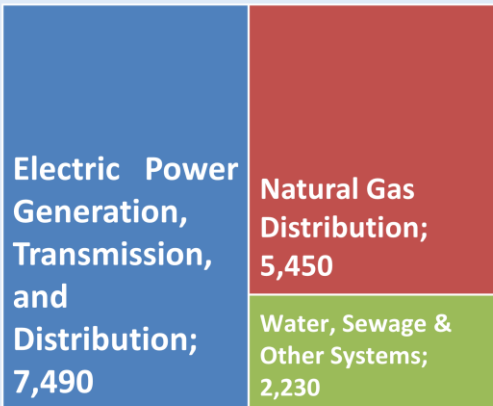
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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

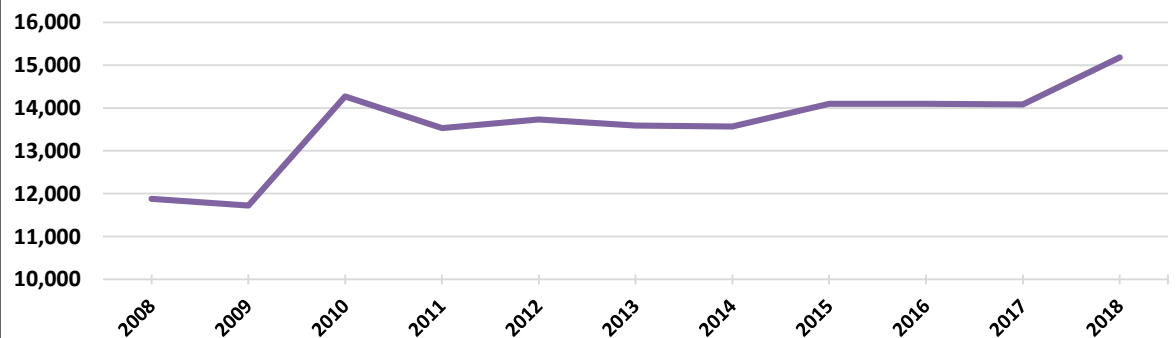
## UTILITIES EMPLOYMENT, 2018

- Utilities is divided into three categories:
  - Electric Power Generation, Transmission, and Distribution.
  - Natural Gas Distribution.
  - Water, Sewage and Other Systems

- In 2018, Electric Power Generation, Transmission, and Distribution made up nearly half (49.34%) of the utilities industry.



- Over the past 10 years (2008-2018), the utilities industry experienced a slight decline of 1.3 percent (or 160 jobs) from 2008 to 2009, then a sudden increase of 21.7 percent (or 2,550 jobs) from 2009 to 2010. Currently, the annual average employment for this industry is 15,180, this is 27.8 percent (or 3,300 jobs) higher than in 2008.



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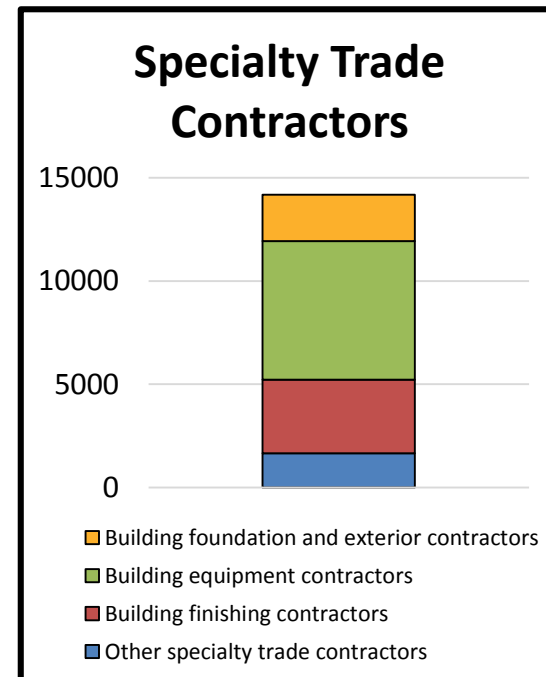
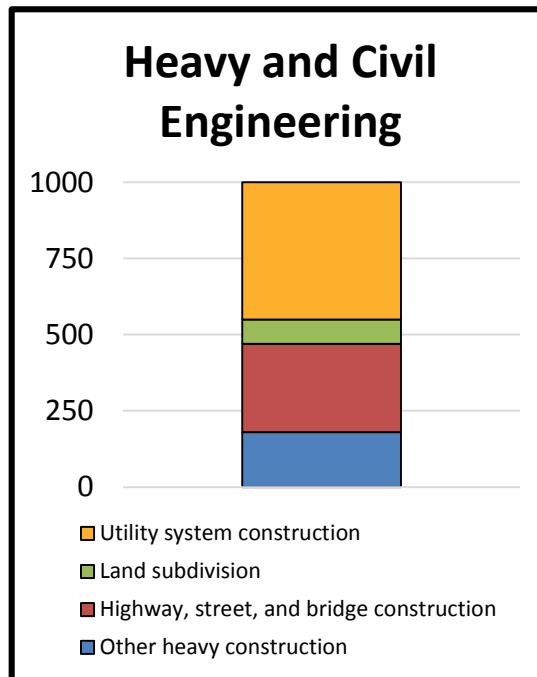
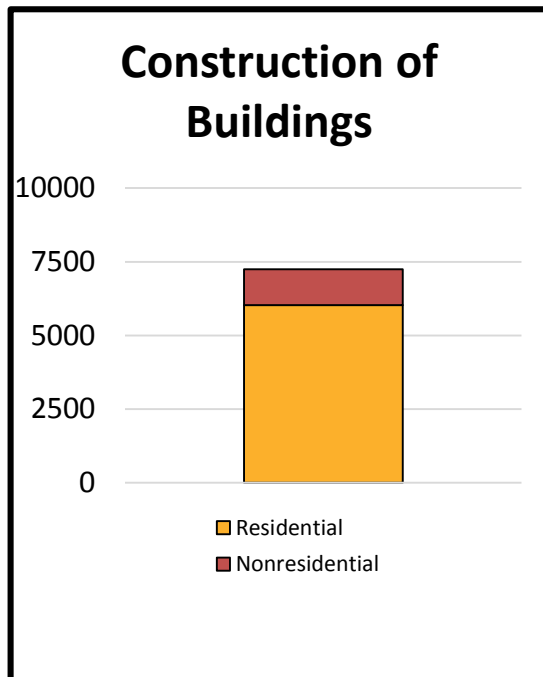
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# **CONSTRUCTION INDUSTRY SECTOR: EMPLOYMENT, ESTABLISHMENTS AND WAGES ANALYSIS**



# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## CONSTRUCTION ESTABLISHMENTS BY INDUSTRY GROUP, 2018



- In 2018, there were 22,420 construction establishments in New Jersey.
- Over 83 percent of the establishments in the construction of buildings group perform work on residential buildings.
- Specialty trade contractors make up nearly two-thirds of all construction industry establishments.

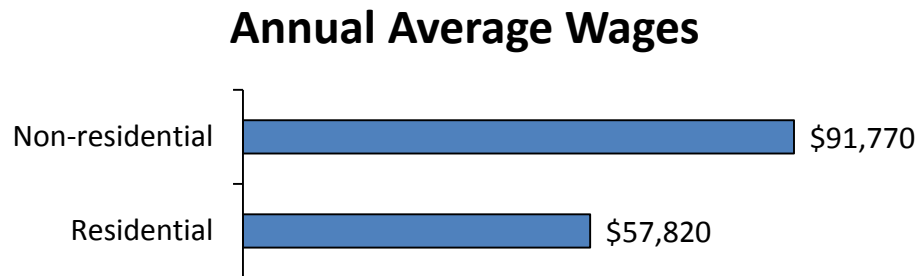
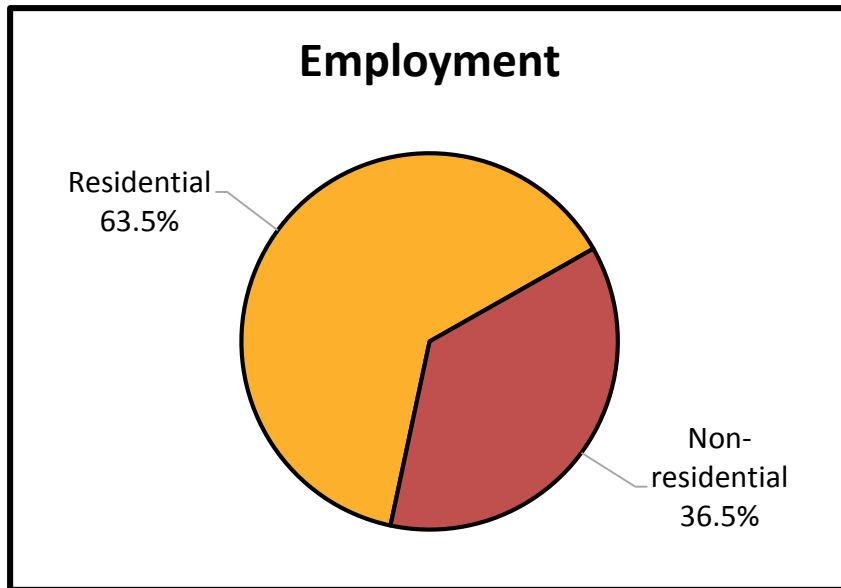


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Source: NJ Department of Labor & Workforce Development, Quarterly Census of Employment and Wages, 2018 Annual Averages  
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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## CONSTRUCTION OF BUILDINGS, 2018



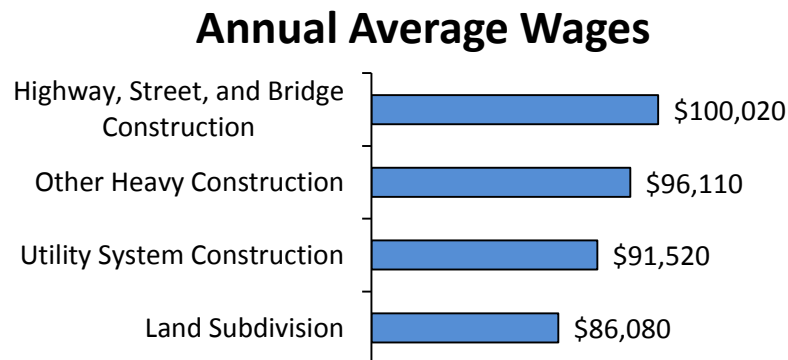
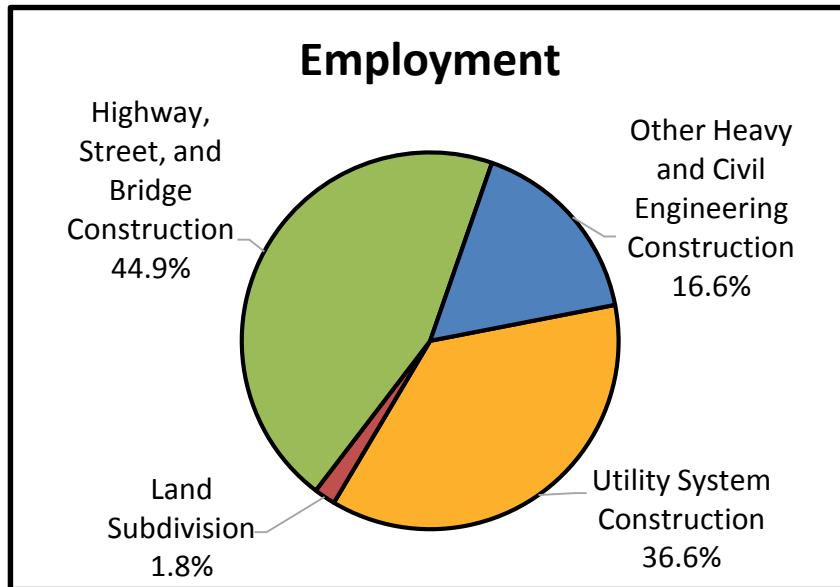
- The Construction of Buildings industry is made up of both residential and non-residential building construction. In 2018, residential building employed 22,770 workers, while non-residential building employed only 13,110.
- Establishments in the Construction of Buildings industry increased by nearly 8.3 percent (560 units) from 2013 to 2018.
- The Construction of Buildings annual average employment experienced a growth of 5,150 jobs (16.7%) over the 5-year period.
- This industry group paid over 2.5 billion in 2018 annual payrolls statewide. This is an increase of 38.4 percent from the total annual wages paid in 2013.



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Source: NJ Department of Labor & Workforce Development, Quarterly Census of Employment and Wages, 2013 - 2018 Annual Averages  
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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR HEAVY AND CIVIL ENGINEERING CONSTRUCTION, 2018



- In 2018, the highway, street and bridge construction group held the highest employment number (9,000), followed by utility system (7,330), other heavy and civil engineering construction (3,330), and land subdivision 370.
- Establishments in the Heavy and Civil Engineering Construction group increased by nearly 4.4 percent (40 units) since 2013.
- The Heavy and Civil Engineering annual average employment experienced a growth of 1,610 jobs (8.7%) over the 5-year period.
- This industry group paid nearly 2 billion in 2018 annual payrolls statewide. This is an increase of 18.4 percent of the total annual wages paid in 2013.



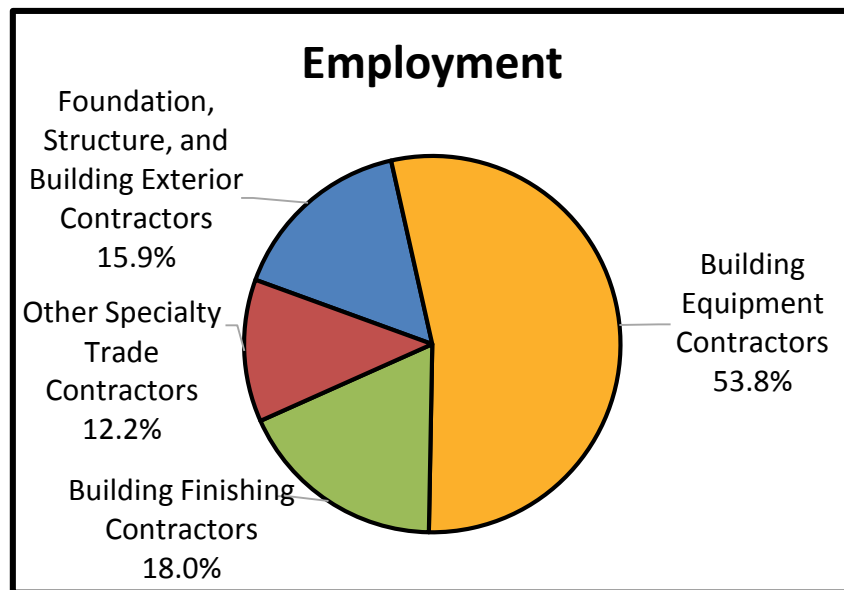
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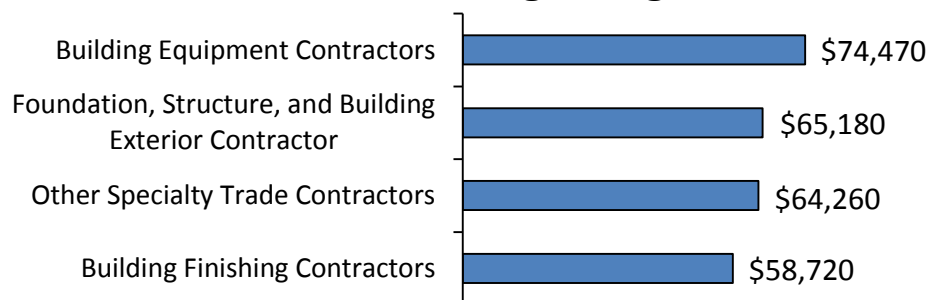


# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## SPECIALTY TRADE CONTRACTORS, 2018



### Annual Average Wages



- Specialty Trade Contractors employed 101,230 workers in 2018: Building equipment contractors employed the most (54,460), then building finishing contractors (18,250), building foundation/exterior contractors (16,130), and other specialty trade contractors (12,390).
- Establishments in the Specialty Trade Contractors group increased by nearly 2 percent (270 units) since 2013.
- The Specialty Trade Contractors annual average employment experienced a growth of 13,500 jobs (or 15.4%) over the 5-year period.
- This industry group paid nearly 7 billion in 2018 annual payrolls statewide. This is an increase of 31.8 percent in comparison to 2013.



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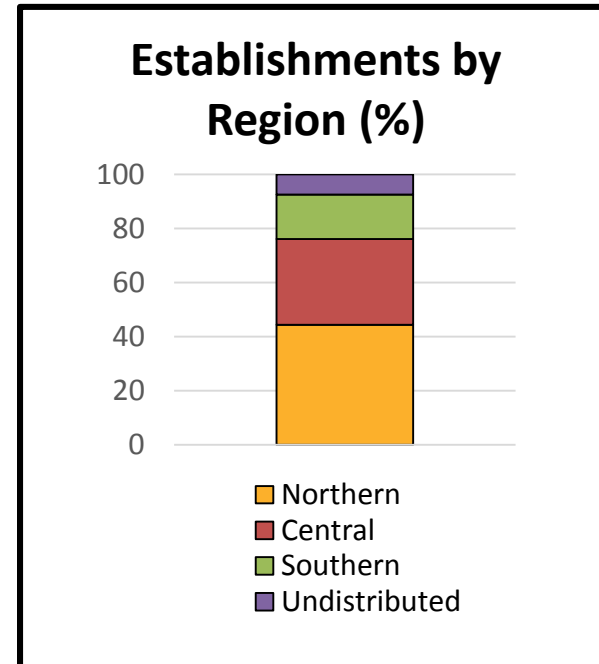
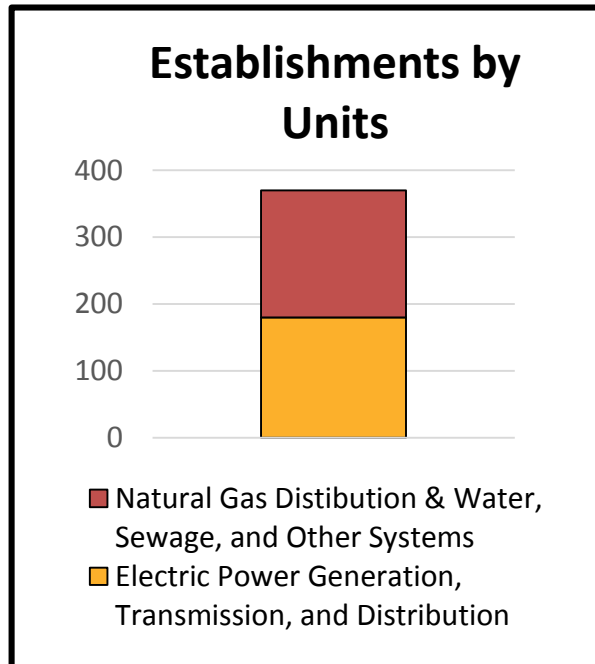
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# **UTILITIES INDUSTRY SECTOR: EMPLOYMENT, ESTABLISHMENTS AND WAGES ANALYSIS**



# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## UTILITY ESTABLISHMENTS BY INDUSTRY GROUP, 2018



- In 2018, there were roughly 370 establishments in the utility industry employing people of all ages, genders, races, and educational backgrounds in New Jersey.
- Nearly half of utility establishments come from power generation and supply.
- Approximately 44 percent of establishments are located in the Northern New Jersey region.



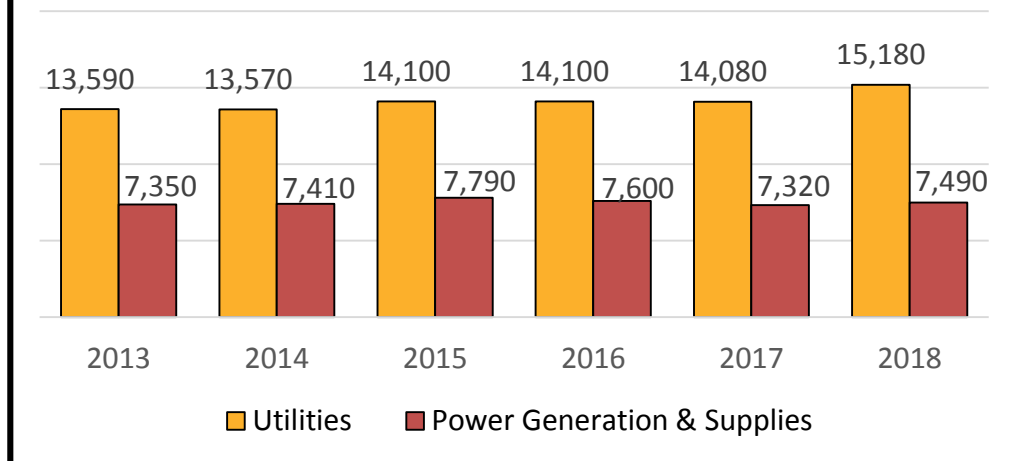
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Source: NJ Department of Labor & Workforce Development, Quarterly Census of Employment and Wages, 2018 Annual Averages  
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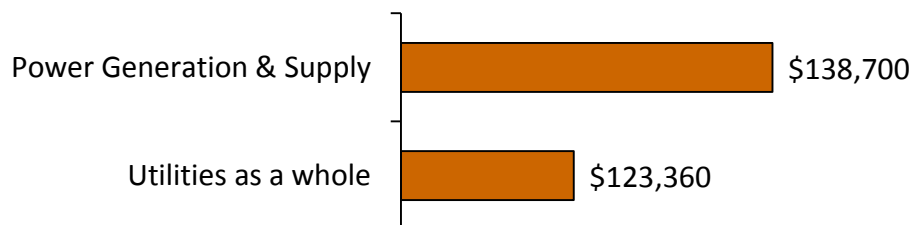
# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## ELECTRIC POWER, GAS DISTRIBUTION, WATER & SEWAGE, 2018

### 2013-2018 Employment



### Annual Average Wages



- Establishments in the utility industry increased 6 percent from 2013 to 2018.
- Utility as a whole has seen a slight increase in its annual average employment of 2.2 percent per year. This is an additional 1,590 jobs since 2013.
- During the five-year period (2013-2018), the utility industry has seen an increase in its annual average earnings from \$107,210 to \$123,360 (or 15.1 percent).
- Power generation and supply had an employment increase of 1.9 percent (150) from 2013-2018. This sector accounted nearly half of 2018's utility industry employment.



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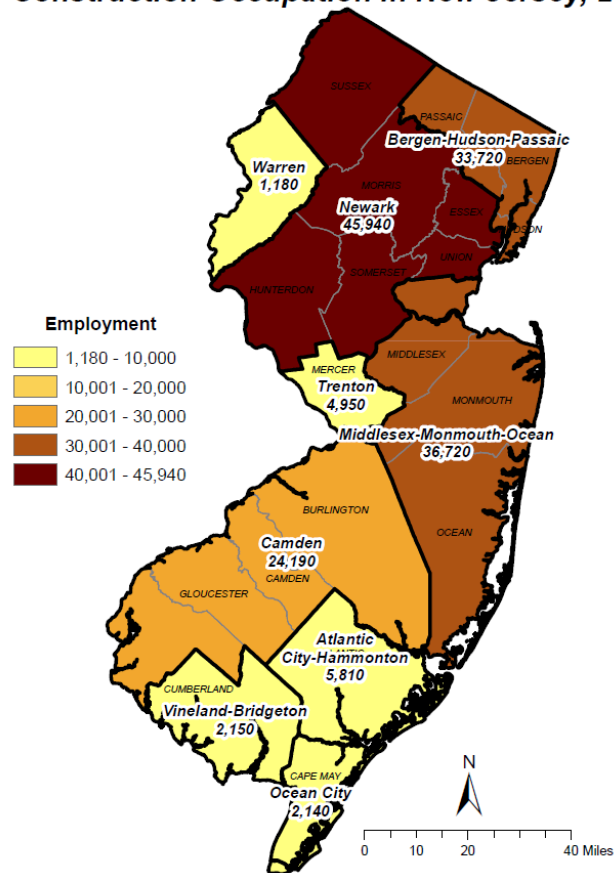
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# **CONSTRUCTION INDUSTRY SECTOR: OCCUPATIONAL ANALYSIS**



# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR CONSTRUCTION OCCUPATIONS BY LABOR AREAS, 2018

*Employment by Labor Area  
Construction Occupation in New Jersey, 2018*



*Note: Map represents total Construction and Extraction Occupations*

NEW JERSEY LABOR AREAS	EMPLOYMENT
Newark	45,940
Middlesex-Monmouth-Ocean	36,720
Bergen-Hudson-Passaic	33,720
Camden	24,190
Atlantic City / Hammonton	5,810
Trenton	4,950
Vineland / Bridgeton	2,150
Ocean City	2,140
Warren	1,180



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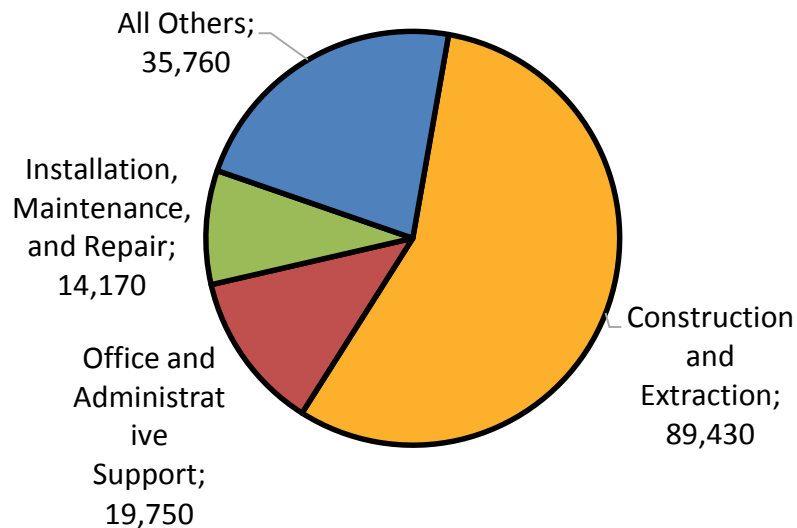
Source: NJ Department of Labor & Workforce Development, Occupational Employment Statistics Survey, 2018  
Prepared by: New Jersey Department of Labor and Workforce Development, January 2020



# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## CONSTRUCTION OCCUPATIONS BY MAJOR GROUPS, 2018

Employment by Major Occupational Group



Nearly two-third of construction employees worked in Construction and Extraction Occupations.

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**Construction Laborers is the top occupation in this group with a employment number of 19,800 and an annual average salary of \$54,371.**

The second largest occupational group in construction is Office and Administrative Support Occupations (12.4%).

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**General Office Clerk top this category with an employment of 6,710 and an annual average salary of \$34,720.**

The third largest is Installation, Maintenance, and Repair (8.9%).

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**Heating, air conditioning, and refrigeration mechanics have the largest employment in this group with a total of 6,380 jobs and an annual average salary of \$58,840.**

*The top three occupational groups make up nearly 78 percent of the total employment in the construction industry sector.*



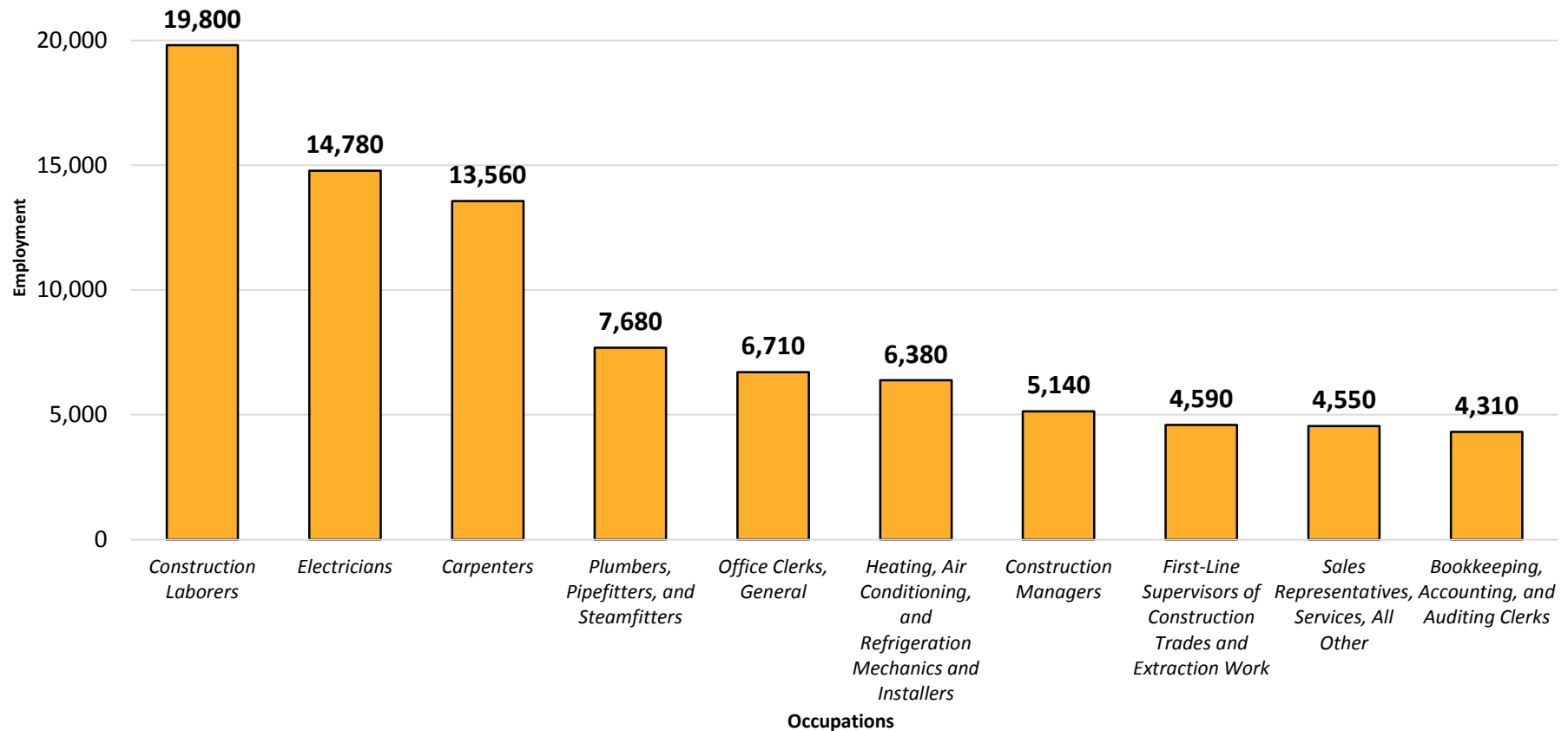
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Source: NJ Department of Labor & Workforce Development, Occupational Employment Statistics Survey, 2018  
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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## TOP 10 OCCUPATIONS IN THE CONSTRUCTION SECTOR, 2018

Occupations in Construction with the most Employment, NJ 2018



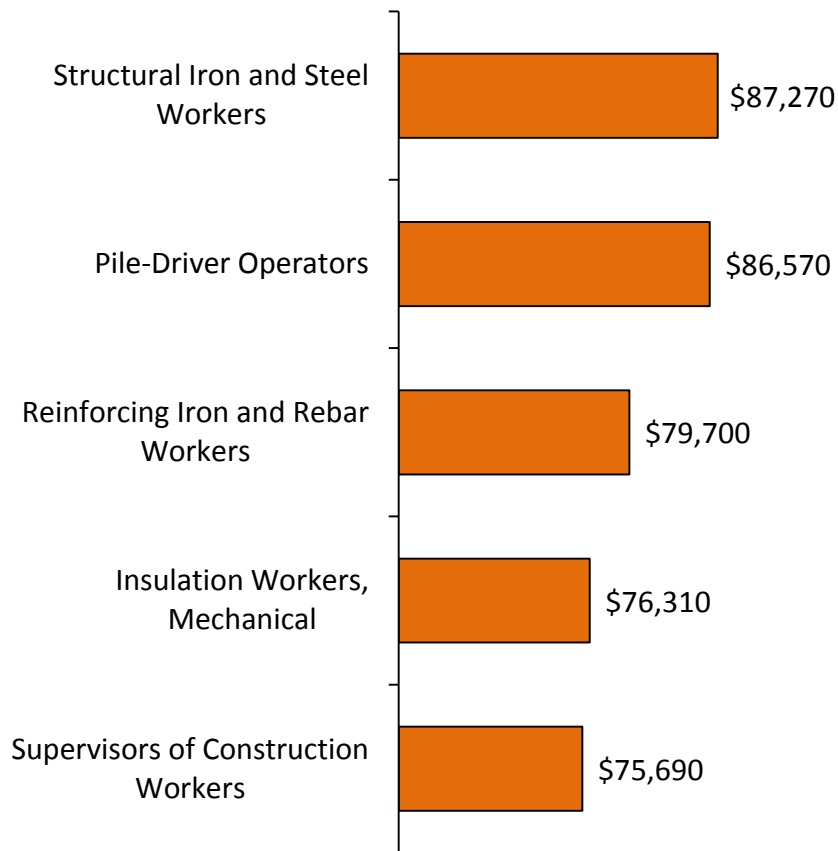
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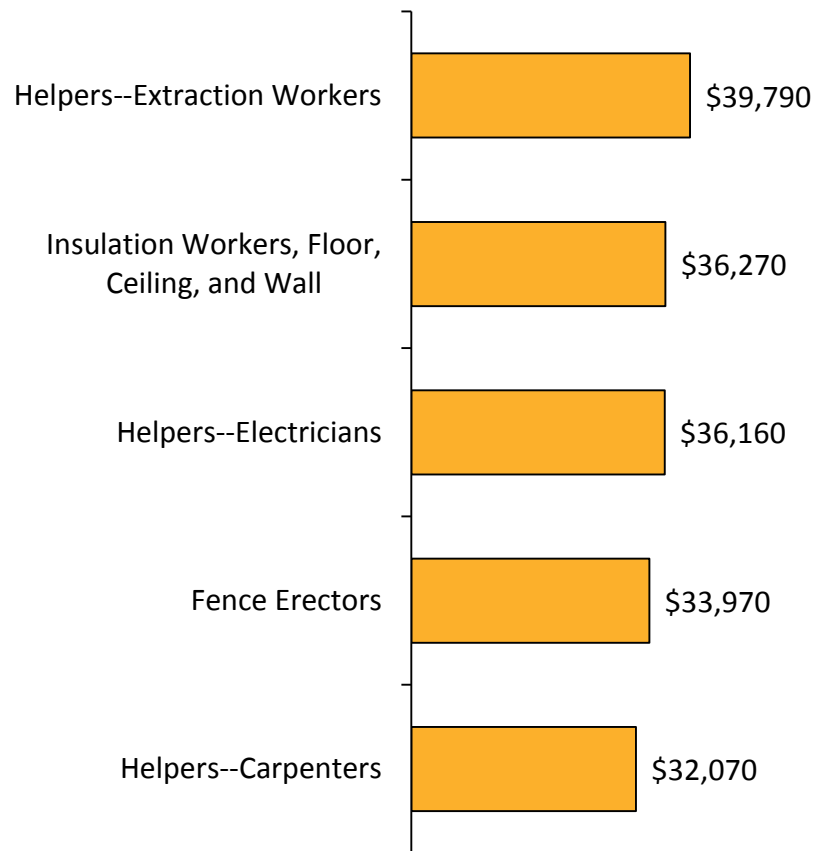
# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## ANNUAL SALARIES FOR SOME CONSTRUCTION OCCUPATIONS, 2018

### Higher End Average Annual Salaries



### Lower End Average Annual Salaries



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Source: NJ Department of Labor & Workforce Development, Occupational Employment Statistics Survey, 2018  
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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## TOP 20 OCCUPATIONS IN THE CONSTRUCTION SECTOR, 2018

SOC Code	Occupation	Employment	Average Wage	Education Requirement
47-2061	Construction Laborers	19,800	\$54,370	No formal educational credential
47-2111	Electricians	14,780	\$72,640	High school diploma or equivalent
47-2031	Carpenters	13,560	\$63,670	High school diploma or equivalent
47-2152	Plumbers, Pipefitters, and Steamfitters	7,680	\$71,720	High school diploma or equivalent
43-9061	Office Clerks, General	6,710	\$34,720	High school diploma or equivalent
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	6,380	\$58,840	Postsecondary nondegree award
11-9021	Construction Managers	5,140	\$149,110	Bachelor's degree
47-1011	First-Line Supervisors of Construction Trades and Extraction Work	4,590	\$75,690	High school diploma or equivalent
41-3099	Sales Representatives, Services, All Other	4,550	\$90,750	High school diploma or equivalent
43-3031	Bookkeeping, Accounting, and Auditing Clerks	4,310	\$47,820	Some college, no degree
47-2051	Cement Masons and Concrete Finishers	3,450	\$60,500	No formal educational credential
47-2141	Painters, Construction and Maintenance	3,390	\$54,180	No formal educational credential
47-2073	Operating Engineers and Other Construction Equipment Operators	3,320	\$82,080	High school diploma or equivalent
13-1051	Cost Estimators	3,190	\$72,730	Bachelor's degree
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical,	2,450	\$34,810	High school diploma or equivalent
53-3032	Heavy and Tractor-Trailer Truck Drivers	2,250	\$56,660	Postsecondary nondegree award
47-2081	Drywall and Ceiling Tile Installers	1,990	\$54,200	No formal educational credential
13-1199	Business Operations Specialists, All Other	1,850	\$79,260	Bachelor's degree
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1,820	\$81,040	High school diploma or equivalent
47-2211	Sheet Metal Workers	1,540	\$61,510	High school diploma or equivalent

3/4 of the Top 20 Construction Occupations in NJ Require a High School Diploma or Less



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Source: NJ Department of Labor & Workforce Development, Occupational Employment Statistics Survey, 2018  
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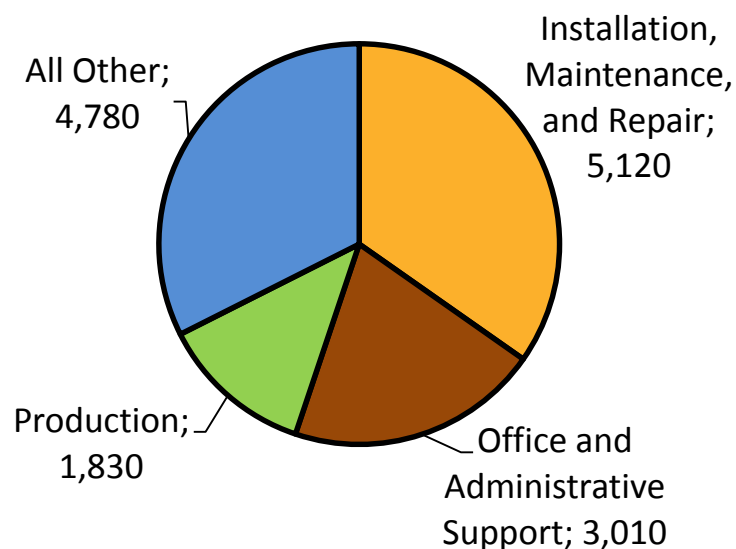
# **UTILITIES INDUSTRY SECTOR: OCCUPATIONAL ANALYSIS**



# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## UTILITY OCCUPATIONS BY MAJOR GROUPS, 2018

**Employment by Major Occupational Group**



Slightly over thirty-four percent of utility employees worked in installation, maintenance, and repair occupations.

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**Electrical Power-Line Installers and Repair is the top occupation in this group with a total employment number of 930 and an annual average salary of \$87,250.**

The second largest occupational group in utilities is office and administrative support occupations (20.4%).

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**Utility Meter Readers remain the top employment under this category with a total employment of 880.**

The third largest is production occupations (12.4%).

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**Power Plant Operators continue to have the largest employment in this group with 440 jobs and a annual average salary of \$84,192.**

*The top three occupational groups make up 67.5 percent of the total employment in the utilities industry sector.*



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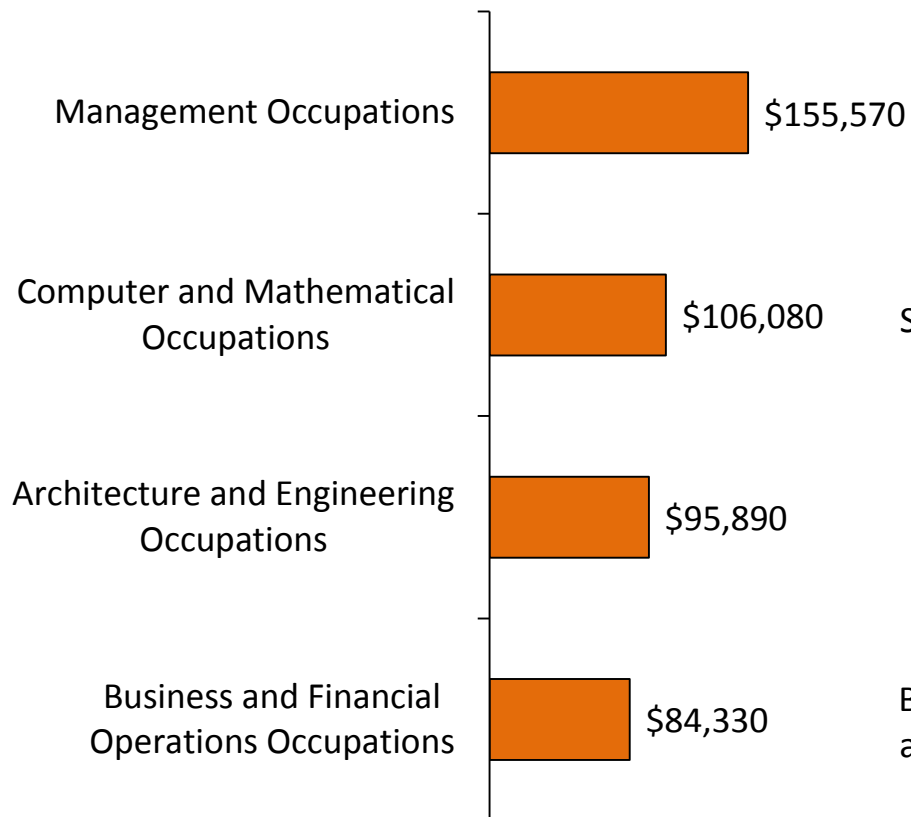
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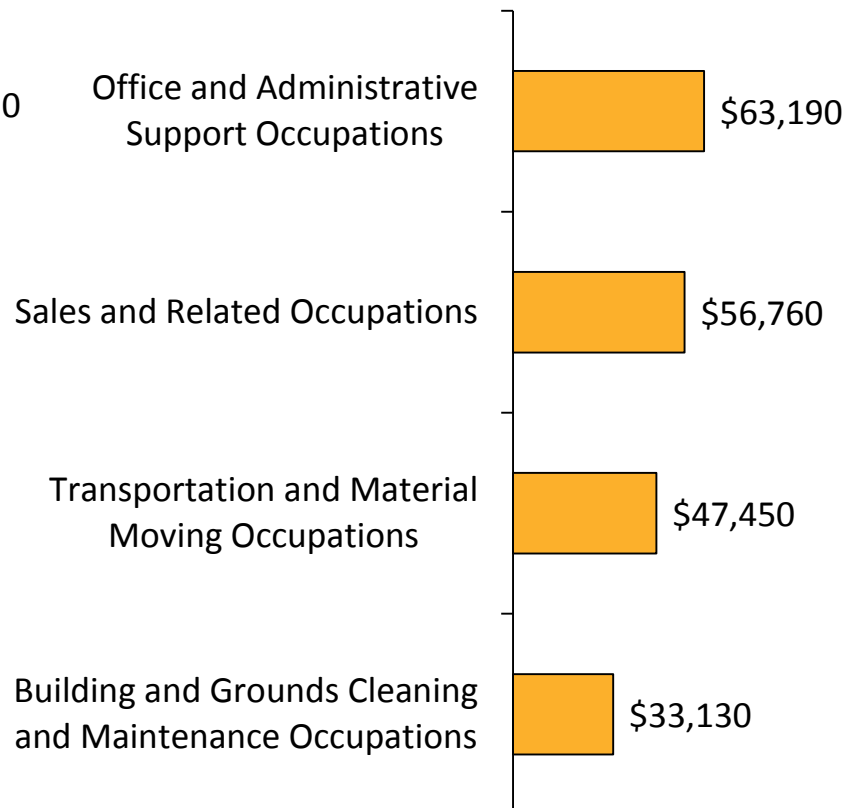
# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## ANNUAL SALARY FOR SOME UTILITIES OCCUPATIONS, 2018

### Higher End Average Annual Salaries



### Lower End Average Annual Salaries

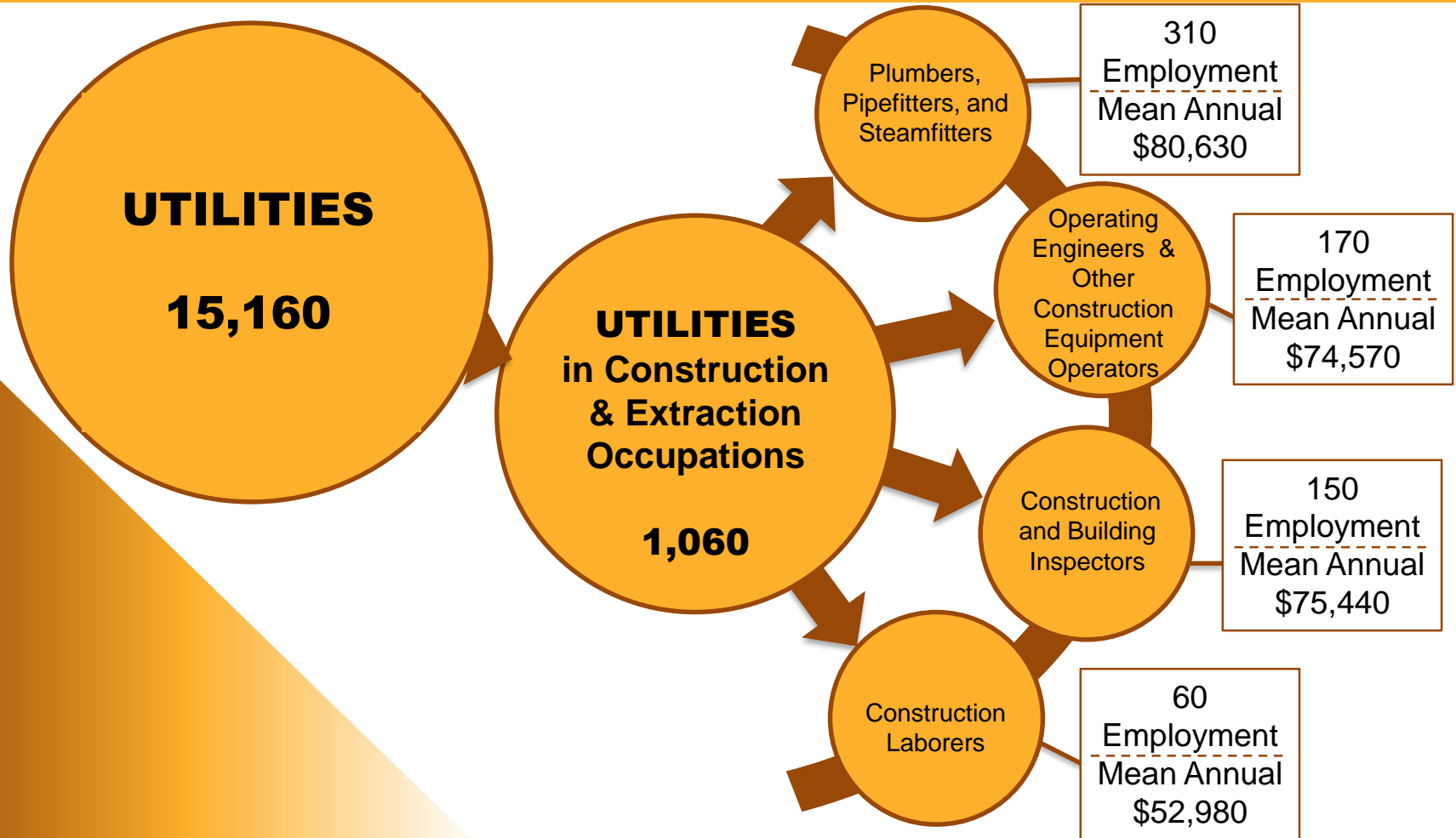


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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## UTILITY JOBS IN CONSTRUCTION AND EXTRACTION OCCUPATIONS



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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## TOP 20 OCCUPATIONS WITH THE MOST EMPLOYMENT IN NJ, 2018

SOC Code	Occupation	Employment	Average Wage	Education Requirement
49-9051	Electrical Power-Line Installers and Repairers	930	\$87,250	High school diploma or equivalent
43-5041	Meter Readers, Utilities	880	N/A	High school diploma or equivalent
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	820	\$70,659	Postsecondary nondegree award
49-9041	Industrial Machinery Mechanics	740	\$64,697	High school diploma or equivalent
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	670	\$88,800	High school diploma or equivalent
43-4051	Customer Service Representatives	630	\$49,737	High school diploma or equivalent
51-8013	Power Plant Operators	440	\$84,192	High school diploma or equivalent
49-9071	Maintenance and Repair Workers, General	430	\$81,332	High school diploma or equivalent
13-1199	Business Operations Specialists, All Other	410	\$83,836	Bachelor's degree
51-1011	First-Line Supervisors of Production and Operating Workers	410	\$92,197	High school diploma or equivalent
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	360	\$88,802	Postsecondary nondegree award
43-9061	Office Clerks, General	330	\$47,879	High school diploma or equivalent
47-2152	Plumbers, Pipefitters, and Steamfitters	310	\$80,631	High school diploma or equivalent
43-5081	Stock Clerks and Order Fillers	300	\$55,423	No formal educational credential
51-8031	Water and Wastewater Treatment Plant and System Operators	240	\$67,110	High school diploma or equivalent
11-9199	Managers, All Other	230	\$139,156	Bachelor's degree
43-3011	Bill and Account Collectors	220	\$67,043	High school diploma or equivalent
51-8012	Power Distributors and Dispatchers	220	\$90,192	High school diploma or equivalent
17-2071	Electrical Engineers	210	\$106,402	Bachelor's degree
43-1011	First-Line Supervisors of Office and Administrative Support Workers	210	\$79,646	High school diploma or equivalent

85 percent of the Top 20 Utility Occupations in NJ Require a High School Diploma or Less



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Source: NJ Department of Labor & Workforce Development, Occupational Employment Statistics Survey, 2018  
Prepared by: New Jersey Department of Labor and Workforce Development, January 2020

# RESIDENTIAL BUILDING PERMITS




# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## RESIDENTIAL HOUSING UNITS AUTHORIZED TO BE BUILT



**In 2018, there were 27,942 housing units authorized for construction in New Jersey, representing a slight decrease of 2 percent over the 2017 year.**

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**During the last 4 years (2014-2018), the value of the constructions totaled more than 4 billion dollars year over year.**

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**Hudson and Ocean Counties issued the most residential building permits in 2018.**



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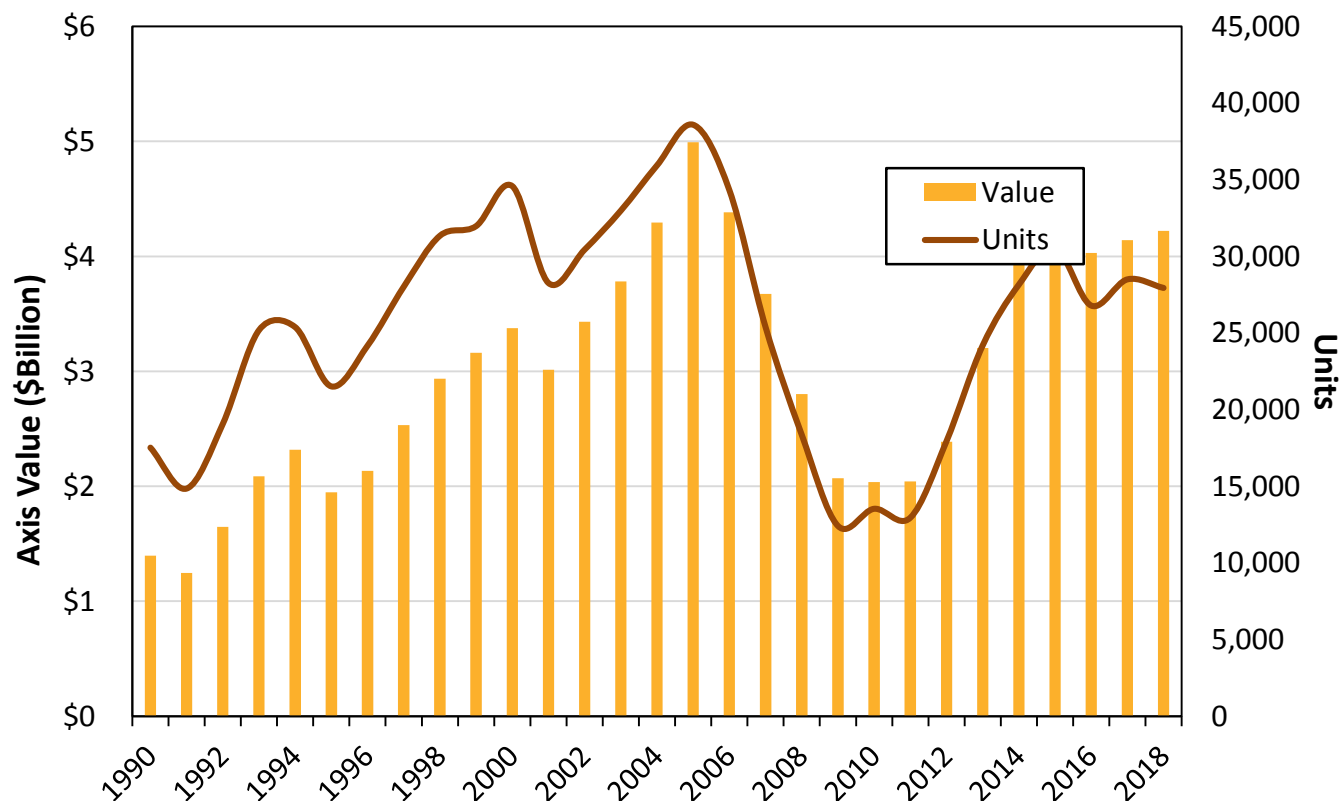
Source: NJ Department of Labor & Workforce Development, U.S. Bureau of Census, Construction Division, Annual Residential Housing, 2018  
Prepared by: New Jersey Department of Labor and Workforce Development, January 2020



# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## NEW JERSEY RESIDENTIAL BUILDING PERMITS 1990-2018

### New Jersey Residential Building Permits 1990 - 2018



A significant decline on the number of residential building permits was observed in New Jersey from 2005 to 2011. This was approximately 66 percent less permits in comparison to 2005.

Followed by an increase of 70 percent from 2012 to 2015. Then, a sudden decline in 2016 and a quick rebound in 2017 (6.4%).

Since 1990, the total number of permits had an overall increase of 59.4 percent and near 200 percent in value.



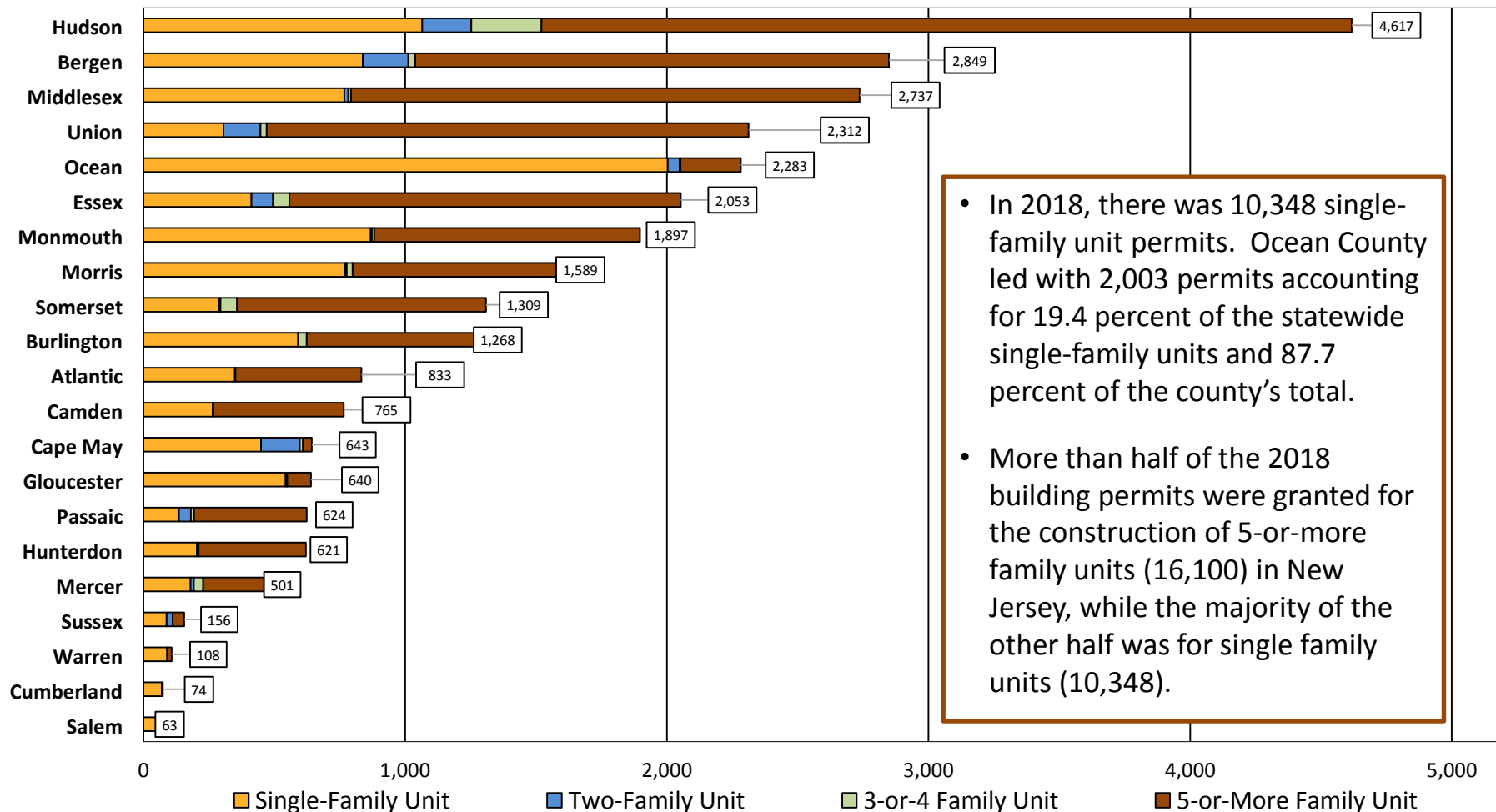
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Source: NJ Department of Labor & Workforce Development, U.S. Bureau of Census, Construction Division, Annual Residential Housing, 2018  
Prepared by: New Jersey Department of Labor and Workforce Development, January 2020



# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## ANNUAL RESIDENTIAL BUILDING PERMITS BY CONSTRUCTION TYPE



- In 2018, there was 10,348 single-family unit permits. Ocean County led with 2,003 permits accounting for 19.4 percent of the statewide single-family units and 87.7 percent of the county's total.
- More than half of the 2018 building permits were granted for the construction of 5-or-more family units (16,100) in New Jersey, while the majority of the other half was for single family units (10,348).



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Source: NJ Department of Labor & Workforce Development, U.S. Bureau of Census, Construction Division, Annual Residential Housing, 2018  
Prepared by: New Jersey Department of Labor and Workforce Development, January 2020

# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## BUILDING PERMITS BY REGION, 2018

REGION	COUNTY	VALUE	UNITS	SINGLE-FAMILY UNITS	TWO-FAMILY UNITS	3-OR-4 FAMILY UNITS	5-OR-MORE FAMILY UNITS
NORTH	Hudson	\$892,520,314	4617	1065	188	268	3096
	Bergen	\$453,011,755	2849	838	174	27	1810
	Morris	\$230,239,256	1589	771	6	22	790
	Essex	\$230,233,139	2053	413	82	62	1496
	Union	\$182,343,138	2312	305	142	24	1841
	Somerset	\$149,697,586	1309	290	4	63	952
	Hunterdon	\$59,515,540	621	205	6	0	410
	Passaic	\$57,403,101	624	135	46	12	431
	Sussex	\$19,665,103	156	88	24	0	44
	Warren	\$16,511,099	108	90	0	0	18
CENTRAL	Ocean	\$442,359,742	2283	2003	46	3	231
	Middlesex	\$429,195,758	2737	767	16	10	1944
	Monmouth	\$345,298,115	1897	868	4	10	1015
	Mercer	\$54,986,755	501	180	12	36	273
SOUTH	Cape May	\$214,574,888	643	449	148	12	34
	Burlington	\$139,734,944	1268	591	0	33	644
	Atlantic	\$131,881,062	833	349	2	0	482
	Gloucester	\$83,635,177	640	543	6	0	91
	Camden	\$70,833,479	765	265	2	0	498
	Salem	\$9,459,597	63	63	0	0	0
	Cumberland	\$7,331,677	74	70	0	4	0
TOTAL	New Jersey	\$4,220,431,225	27,942	10,348	908	586	16,100

- The types of residential housing permits issued varies across the three regions. The Northern Region issued the most residential permits (16,238 units). Over 67.1 percent (10,888 units) were for 5-or-more family unit construction.
- The Central Region had the second most residential authorizations (7,418). Single-family units accounted for 51.5 percent (3,818 units) of the planned homebuilding.
- The Southern Region issued the least building permits (4,286). Over 40.8 percent (1,749 units) were for 5-or-more family units.



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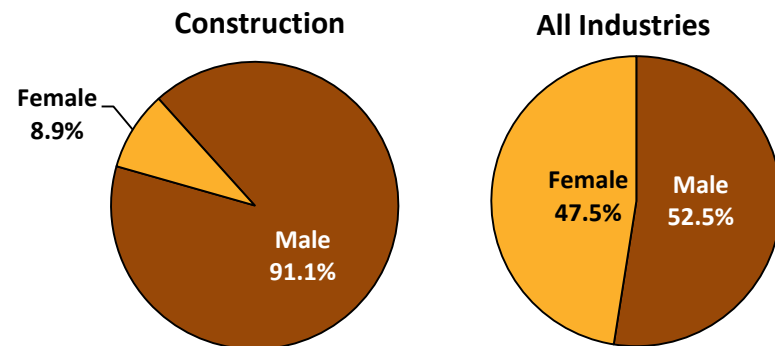
# **CONSTRUCTION INDUSTRY SECTOR: DEMOGRAPHIC OVERVIEW**



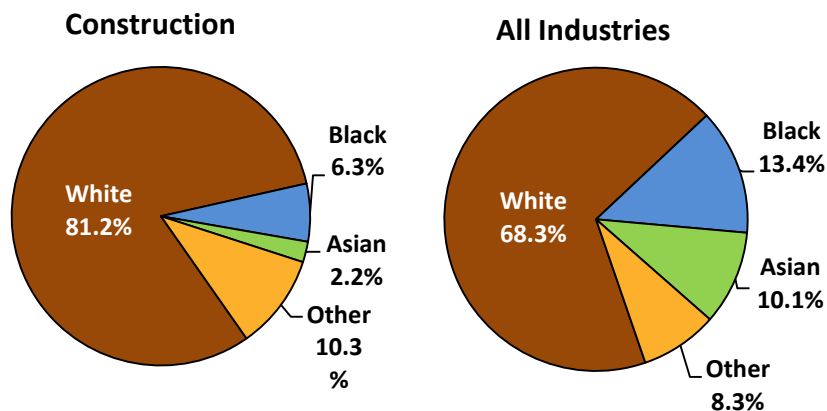
# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## GENDER, RACIAL, AND ETHNIC PROFILE IN CONSTRUCTION

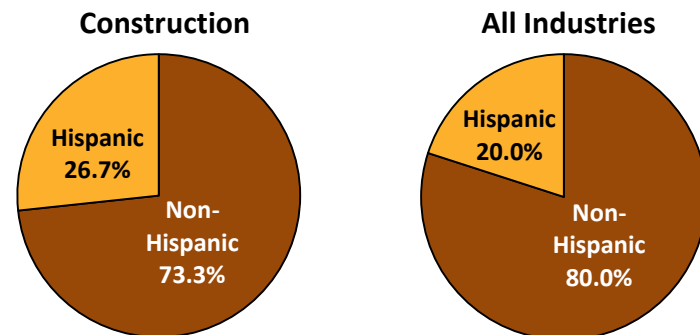
The construction industry is male driven. There are approximately nine males for every female



The workforce in construction is much less diverse than all industries.



The construction industry has more Hispanic workers than the average in all industries.

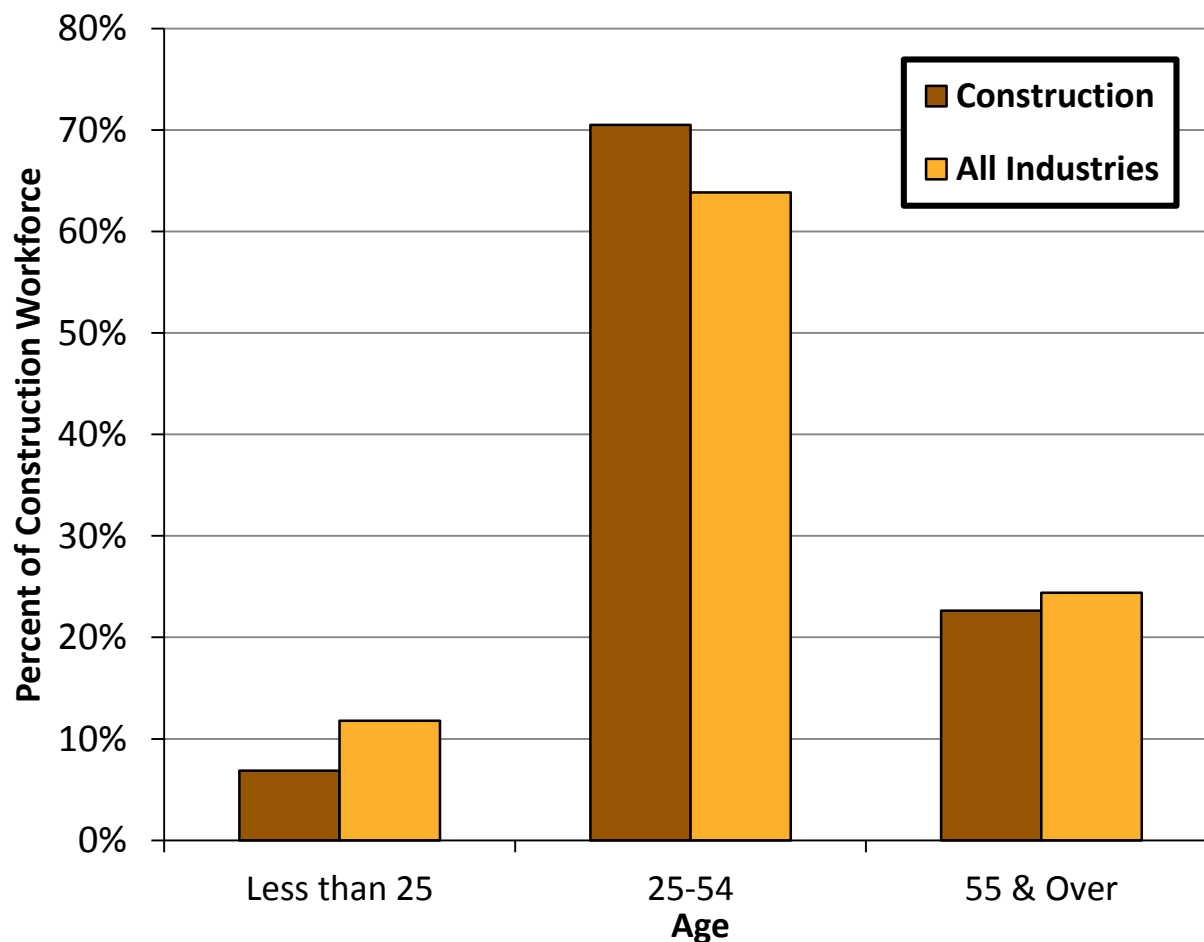


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Source: NJ Department of Labor & Workforce Development, U.S. Bureau of Census, American Community Survey, 2017  
Prepared by: New Jersey Department of Labor and Workforce Development, January 2020

# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## CONSTRUCTION WORKFORCE AGE DEMOGRAPHICS



- In total, the construction industry workforce represented by workers between ages 25-54 is 6 percent higher compared to the same workforce segment of all other industries.
- The opposite is seen with workers younger than 25 years old where all the industries show a higher number of workers (5 %) in comparison to the construction workforce under the same category.
- Nearly half of the construction workforce (49 %) is between the ages of 35-54.



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Source: NJ Department of Labor & Workforce Development, U.S. Bureau of Census, American Community Survey, 2017

Prepared by: New Jersey Department of Labor and Workforce Development, January 2020

# **UTILITIES INDUSTRY SECTOR: DEMOGRAPHIC OVERVIEW**

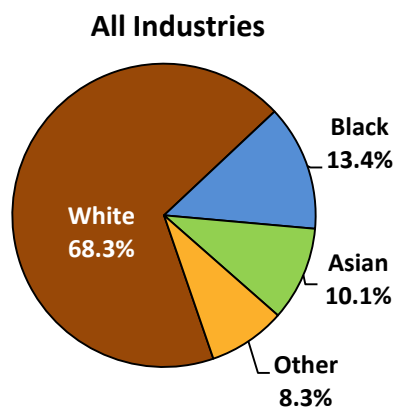
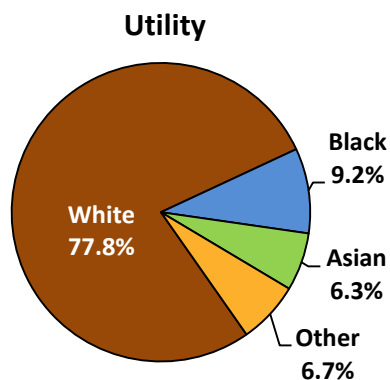




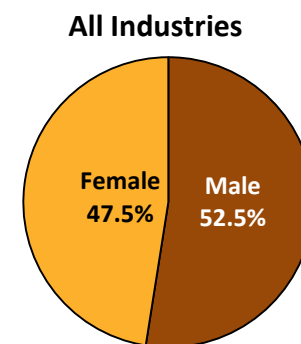
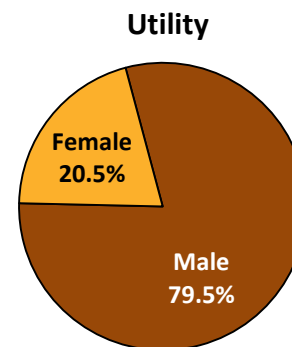
# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## GENDER, RACIAL, AND ETHNIC PROFILE IN UTILITY

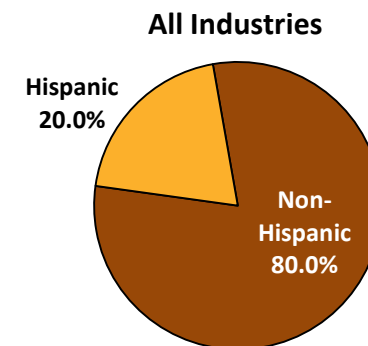
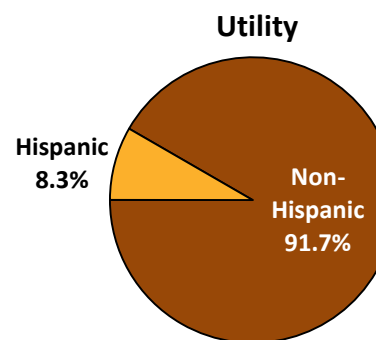
The utilities industry is also male driven. However, females make up almost one quarter of the industry.



The utility workforce has less Hispanic workers than the average of all industries.



The workforce in the utilities industry is much less diverse than all industries.



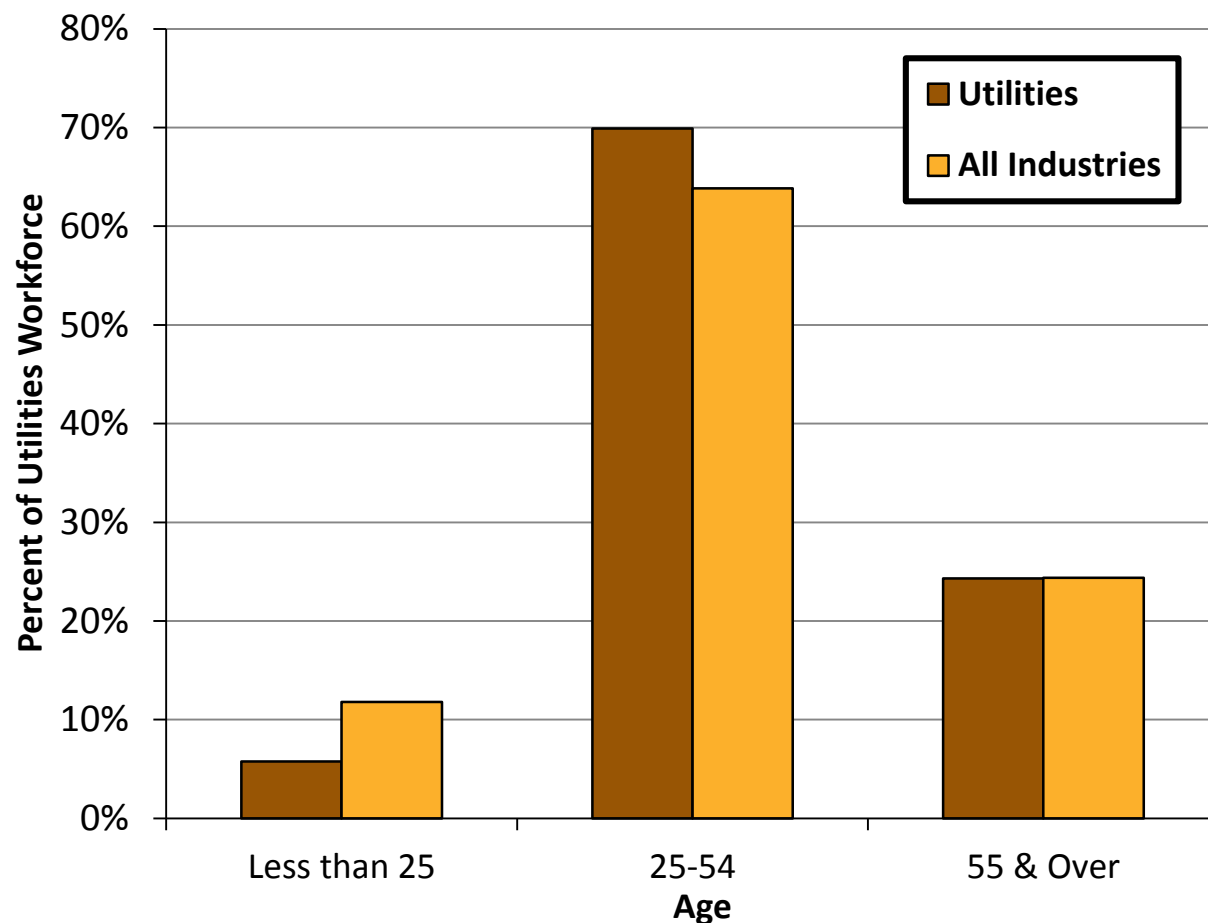
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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## UTILITIES WORKFORCE AGE DEMOGRAPHICS



- The utility industry workforce has a higher percentage of workers that are between 25-54 year olds compared to all other industries. This is approximately 6 percent higher.
- On the contrary, a lower percentage (6%) of less than 25 years old workers is seen in this workforce with respect to all other industries.
- Half of the utility workforce is between the ages of 35-54.



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Source: NJ Department of Labor & Workforce Development, U.S. Bureau of Census, American Community Survey, 2017

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# **CONSTRUCTION INDUSTRY SECTOR: OCCUPATIONAL PROJECTIONS & OUTLOOK**



# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## TOP CONSTRUCTION OCCUPATIONS OUTLOOK

Occupation Title	Employment			
	Actual 2016	Projected 2026	Change 2016-2026	
			Number	Percent
Heating, air conditioning, and refrigeration mechanics and installers	6,540	8,150	1,610	24.6
Plumbers, pipefitters, and steamfitters	7,270	9,020	1,750	24.1
Sales representatives, services, all other	4,490	5,260	770	17.1
Roofers	1,500	1,750	250	16.7
Brickmasons and blockmasons	1,630	1,900	270	16.6
Business operations specialists, all other	1,710	1,990	280	16.4
Cement masons and concrete finishers	2,860	3,310	450	15.7
Helpers--electricians	1,740	2,010	270	15.5
Cost estimators	3,210	3,700	490	15.3
Electricians	13,570	15,630	2,060	15.2
First-line supervisors of construction trades and extraction workers	5,300	6,100	800	15.1
Construction Managers	4,670	5,350	680	14.6
Operating engineers and other construction equipment operators	3,350	3,830	480	14.3
Heavy and tractor-trailer truck drivers	1,970	2,250	280	14.2
Construction laborers	18,410	20,990	2,580	14.0
Carpenters	14,020	15,490	1,470	10.5
Painters, construction and maintenance	3,300	3,530	230	7.0
Bookkeeping, accounting, and auditing clerks	3,560	3,730	170	4.8
Office clerks, general	6,290	6,590	300	4.8
Secretaries and administrative assistants, except legal, medical, and executive	2,790	2,750	(40)	(1.4)

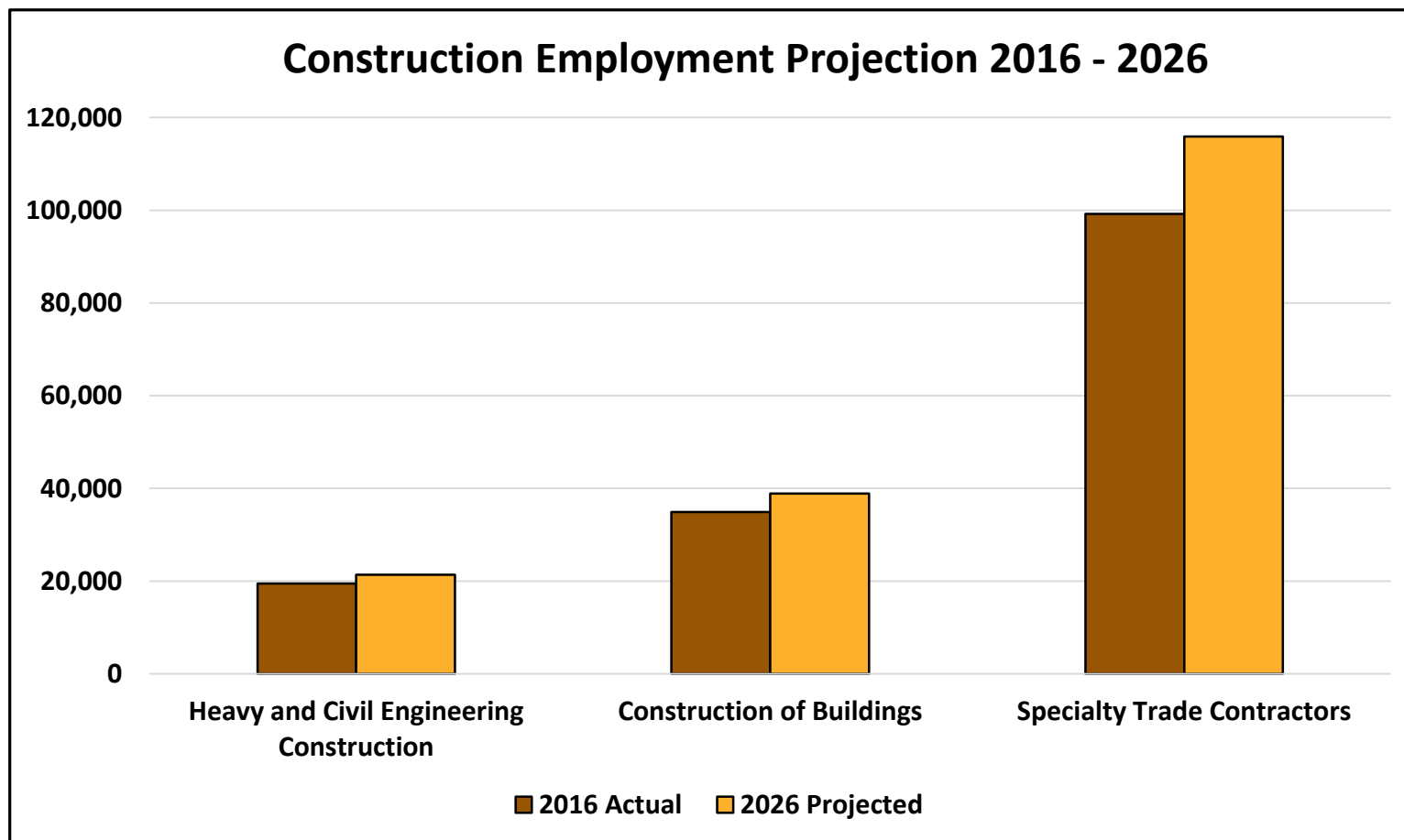


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Source: NJ Department of Labor & Workforce Development, 2016-2026  
Industry and Occupational Employment Projections.  
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January 2020

# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## CONSTRUCTION INDUSTRY EMPLOYMENT PROJECTION



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Source: NJ Department of Labor & Workforce Development, 2016-2026  
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# **UTILITIES INDUSTRY SECTOR: OCCUPATIONAL PROJECTIONS & OUTLOOK**





# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## TOP UTILITIES OCCUPATIONS OUTLOOK

Occupation Title	Employment			
	Actual 2016	Projected 2026	Change 2016-2026	
			Number	Percent
Home appliance repairers	480	530	50	10.4
Plumbers, pipefitters, and steamfitters	320	350	30	9.4
Maintenance and repair workers, general	330	360	30	9.1
Heating, air conditioning, and refrigeration mechanics and installers	800	860	60	7.5
Industrial machinery mechanics	570	600	30	5.3
Business operations specialists, all other	430	450	20	4.7
Control and valve installers and repairers, except mechanical door	260	270	10	3.8
First-line supervisors of mechanics, installers, and repairers	590	600	10	1.7
First-line supervisors of production and operating workers	400	400	-	0.0
Electrical engineers	260	260	-	0.0
Stock clerks and order fillers	260	260	-	0.0
Customer service representatives	490	480	(10)	-2.0
Electrical and electronics repairers, powerhouse, substation, and relay	390	380	(10)	-2.6
Office clerks, general	280	270	(10)	-3.6
Water and wastewater treatment plant and system operators	270	260	(10)	-3.7
Electrical power-line installers and repairers	780	750	(30)	-3.8
Power plant operators	480	460	(20)	-4.2
Meter readers, utilities	740	700	(40)	-5.4
Nuclear engineers	240	220	(20)	-8.3
Power distributors and dispatchers	250	220	(30)	-12.0



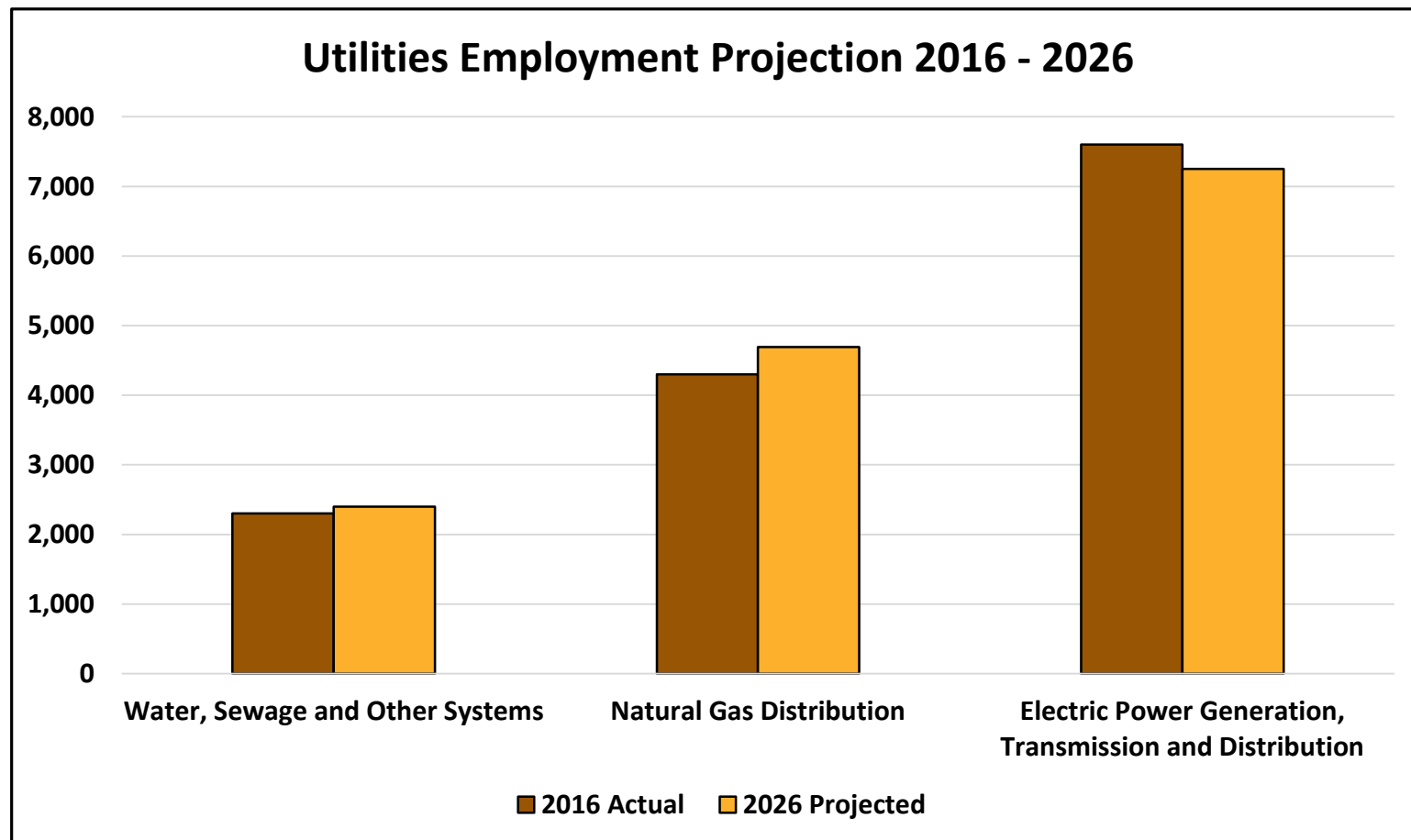
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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR

## UTILITIES INDUSTRY EMPLOYMENT PROJECTION



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# NEW JERSEY CONSTRUCTION & UTILITIES INDUSTRY SECTOR CONTACT INFORMATION

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## New Jersey Department of Labor & Workforce Development

<http://lwd.dol.state.nj.us/>

P.O. Box 057

Trenton, NJ 08625-0057

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[http://lwd.dol.state.nj.us/labor/lpa/LMI\\_index.html](http://lwd.dol.state.nj.us/labor/lpa/LMI_index.html)

*Alex Ancianis – Labor Market Analyst*

Tel: (609)292-2742

Email: [Alex.Ancianis@dol.nj.gov](mailto:Alex.Ancianis@dol.nj.gov)



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